

PENDING CLAIMS

- 1-36. (Canceled).
37. (Canceled).
38. (Canceled).
39. (Withdrawn) The energy recovery ventilator as recited in claim 37, wherein said first gas stream and said second gas stream flow in a co-flow relationship.
40. (Withdrawn) The energy recovery ventilator as recited in claim 37, wherein said first gas stream and said second gas stream flow in a counterflow relationship.
41. (Canceled).
42. (Currently Amended) [The] An energy recovery ventilator [as recited in claim 37,]
having a separator between a first passageway and a second passageway for a first gas stream and a second gas stream to pass therethrough, respectively, said separator comprising an at least partially sulfonated random hydrocarbon copolymer ionomer membrane, and further comprising:
a three-dimensional structure disposed in at least one said passageway to maintain said passageway open.
43. (Previously Presented) The energy recovery ventilator as recited in claim 42, wherein said three-dimensional structure comprises a plurality of uniformly stacked pyramids.
44. (Withdrawn) The energy recovery ventilator as recited in claim 42, wherein said three-dimensional structure induces stirring in said gas stream flowing in said passageway, thereby increasing the effectiveness factor of said plate-type heat exchanger.

45. (Withdrawn) The energy recovery ventilator as recited in claim 42, wherein said three-dimensional structure comprises a plurality of spacer bars.
46. (Currently Amended) [The] An energy recovery ventilator [as recited in claim 37,] having a separator between a first passageway and a second passageway for a first gas stream and a second gas stream to pass therethrough, respectively, said separator comprising an at least partially sulfonated random hydrocarbon copolymer ionomer membrane, and further comprising:
a substantially two-dimensional reinforcement structure associated with said membrane to support said membrane.
47. (Previously Presented) The energy recovery ventilator as recited in claim 46, wherein said substantially two-dimensional reinforcement structure comprises a two dimensional trigonal structure.
48. (Withdrawn) The energy recovery ventilator as recited in claim 46, wherein said substantially two-dimensional reinforcement structure comprises a sheet of webbed netting.
49. (Withdrawn) The energy recovery ventilator as recited in claim 46, wherein said substantially two-dimensional reinforcement structure comprises a layer of plastic.
50. (Withdrawn) The energy recovery ventilator as recited in claim 49, wherein said layer of plastic comprises a selected one of polytetrafluoroethylene, expanded polytetrafluoroethylene, polypropylene, and an open cell polymer film.
51. (Withdrawn) The energy recovery ventilator as recited in claim 37, further comprising a single structure that combines the functions of a three-dimensional structure disposed in at least one said passageway to maintain said passageway open and a

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substantially two-dimensional reinforcement structure associated with said membrane to support said membrane.

52. (Withdrawn) The energy recovery ventilator as recited in claim 51 wherein said single structure comprises a layer of web netting including nodes having a dimension substantially equal to a dimension of said passageway.

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